

 $\begin{array}{lll} \mbox{Nonactin} & C: & R_1 = R_2 = R_3 = R_4 = CH_3 \\ \mbox{Monactin} & D: & R_1 = CH_2CH_3, \, R_2 = R_3 = R_4 = CH_3 \\ \mbox{Dinactin} & E: & R_1 = R_3 = CH_2CH_3, \, R_2 = R_4 = CH_3 \\ \mbox{Trinactin} & F: & R_1 = R_2 = R_3 = CH_2CH_3, \, R_4 = CH_3 \\ \mbox{Tetranactin} & G: & R_1 = R_2 = R_3 = R_4 = CH_2CH_3 \end{array}$

Figure 1

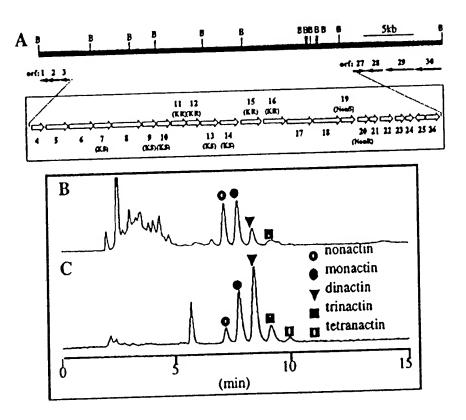


Figure 2

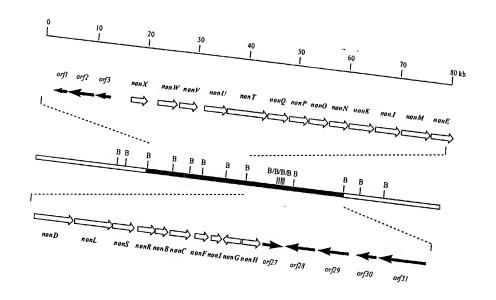


Figure 3

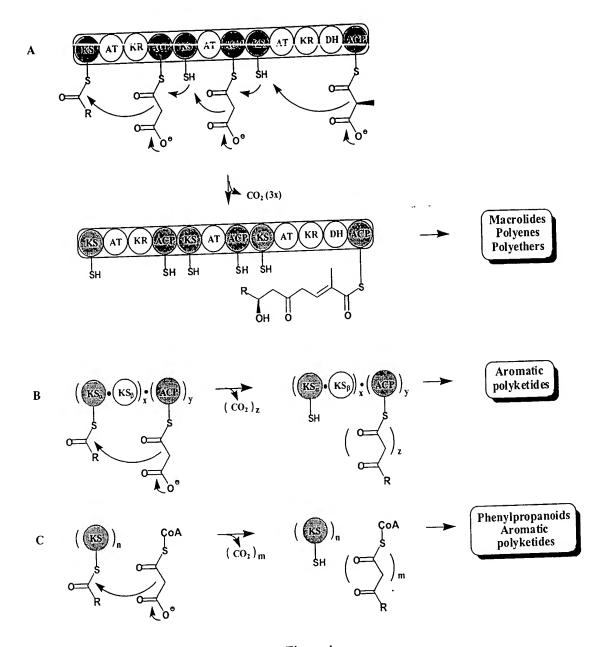


Figure 4

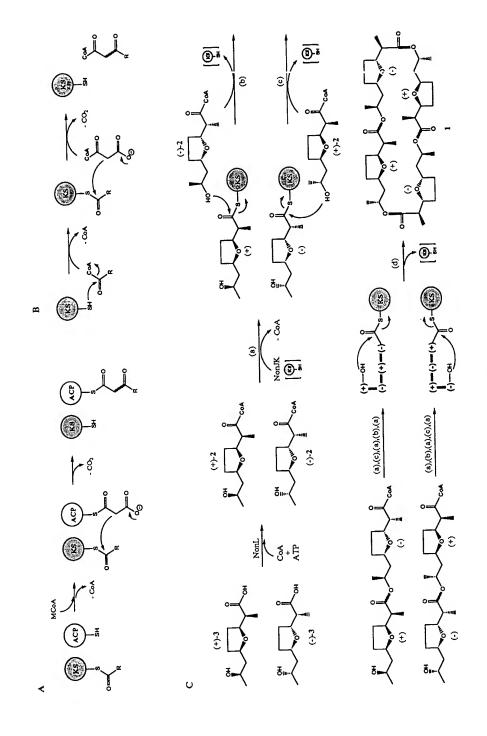


Figure 5



Entry	Plasmid		Genes		Yield of 1 (μ	Yield of 1 (μg)	
			Pactl	Pactl			
11	pBS2014	pBS2015)[)[](][_) 200		
Ш		pBS2015)DD(IC) 0		
IV		pBS2016			0		
٧	pBS2017			D	0		
VI	pBS2017	pBS2016			180		
VII	pBS2017	pBS2018			560		
VIII	pBS2019	pBS2018			470		
IX	pBS2020	pBS2018	C161G		0		
x	pBS2021	pBS2018	C169G		0		

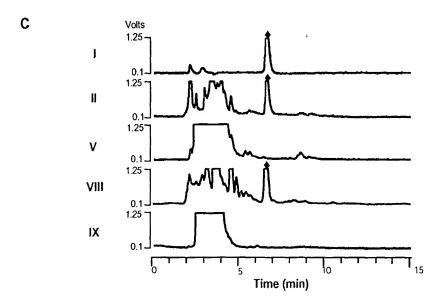


Figure 6

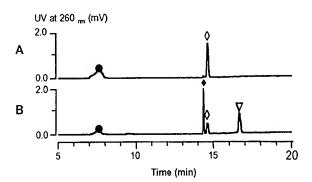


Figure 7

Týpe II-FAS	- FabB	. ISSACAT	SA 126aa -	YLNSH	GTST.	-24aa-	TEKAMING	HSIL@A
YWW.	FabF	TATACTS	GV -131aa-	YVNAH	GTGT.	-26aa-	TIKSMITE	HILILGA
Type I-PKS	DEBS1	VDTA <mark>C</mark> SS	SL -126aa-	AVEA	GTGT	-27aa-	VKSNLG	TQAA
Type I-PKS	PikAIV		SL -126aa-					
Type II-PKS	Acti KSa		GL - 131aa-					
	Tem KSa		GL - 131aa-					
Type III-PKS	CHS2	YQQG <mark>C</mark> FA	GG -130aa-	FWIAH	PGGP	-22aa-	VLSDYG	MSSA
	RppA	aqlg <mark>c</mark> aa	GG -123aa-	FFIV	AGGP	-22aa-	TLTERG	NIASS
	NonK		SS -143aa-	100			QEACFG	
	NonJ	VSGS <mark>C</mark> NV.	AL -122aa-	FVNDY	ADGN	-28aa-	QEAVFG	VAGT

Figure 8

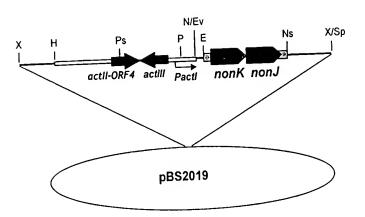


Figure 9

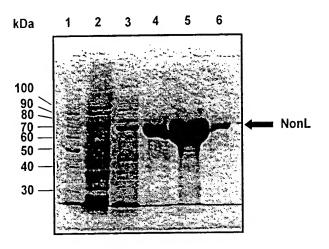


Figure 10

$$(65,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,85) \atop (R = CH_3) \text{ or } E)$$

$$(A5,87) \atop (R = CH_3) \text{ or } E)$$

$$(A5,87) \atop (R = CH_3) \text{ or } E)$$

$$(A5,87) \atop (R = CH_3) \text{ or } E)$$

$$(A5,87) \atop (R = CH_3) \text{ or } E)$$

$$(A5,87) \atop (R = CH_3) \text{ or } E)$$

$$(A5,87) \atop (R = CH_3)$$

$$(A5,$$

Figure 11

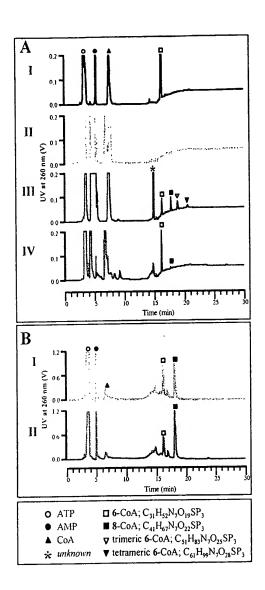


Figure 12

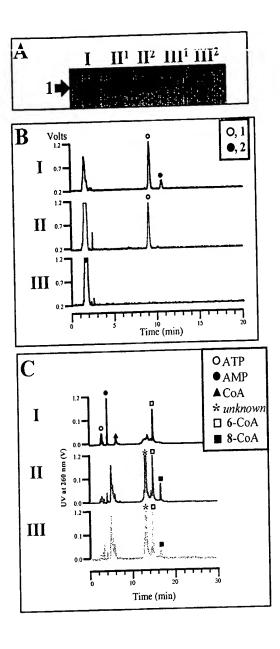


Figure 13

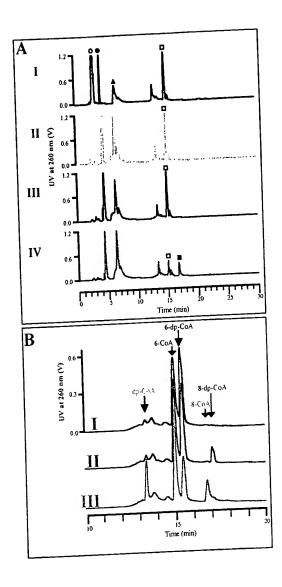


Figure 14

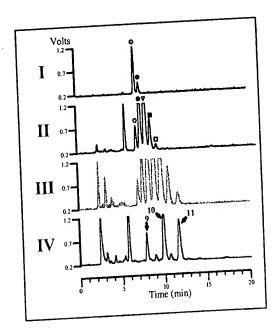


Figure 15

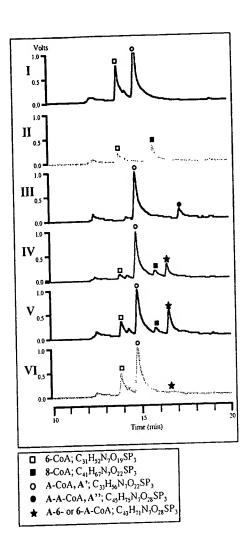


Figure 16